

IN THE CLAIMS

Please enter the following claim amendments.

1. (currently amended) A sewer and storm water drainage system for a flow of waste water having a general flow direction, the system comprising[[:]];
a baffle having a first and second position[[:]];
said first position being substantially perpendicular to said general flow direction[[:]];
said second position being substantially parallel to said general flow direction[[:], and]];
a pivot rod connected to said baffle wherein said baffle moves from said first position to said second position when a hydraulic gradient exceeds the force necessary to move said baffle out of said first position; and
a torque limiting device to lock the baffle in the first position, to unlock the baffle at a predetermined hydraulic gradient force such that the baffle moves toward the second position, and to enable the baffle to return to and lock in the first position when the hydraulic gradient falls below the predetermined hydraulic gradient force.
2. (currently amended) The ~~sewer and storm water drainage~~ system of claim 1 wherein said pivot rod is held in said first position with [[a]] the torque limiting device.
3. (new) The system of claim 1, wherein the torque limiting device comprises:
a seat member having a first surface and a second surface, and at least one detent on the first surface, the at least one detent adapted to engage an aperture;
at least one biasing member to maintain the baffle in the first position by biasing the second surface of the seat member such that the at least one detent engages the aperture; and
wherein the at least one detent is adapted to disengage from the aperture at the predetermined hydraulic gradient force to enable the baffle to move from the first position toward the second position.
4. (new) The system of claim 3, wherein the at least one biasing member is a spring.
5. (new) The system of claim 1, wherein the baffle has a density less than water to facilitate the movement of the baffle from the first position toward the second position and such that the baffle floats on the flow of waste water.
6. (new) The system of claim 1, wherein the baffle comprises at least one hollow metal sheet coated with at least one of an anticorrosion plastic layer and a polyethylene board.

7. (new) The system of claim 1, wherein the predetermined hydraulic gradient force is approximately 38,200 gallons per minute (GPM).
8. (new) The system of claim 1, wherein the weight of the baffle facilitates the baffle moving toward the first position when the hydraulic gradient falls below the predetermined hydraulic gradient force and facilitates the at least one detent to engage the aperture such that the baffle locks in the first position.
9. (new) The system of claim 1, wherein the baffle is adapted to rotate about the pivot rod in a range of approximately two degrees to approximately eighty-eight degrees after the torque limiting device unlocks the baffle.
10. (new) The system of claim 1, wherein the predetermined hydraulic gradient force of the torque limiting device is adjustable such that the baffle can move from the locked first position toward the second position to move away from the flow of waste water.